

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-350016

(43)Date of publication of application : 15.12.2000

(51)Int.Cl.

H04N 1/387

G06T 3/40

(21)Application number : 11-157656

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(22)Date of filing : 04.06.1999

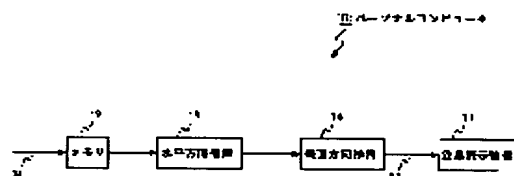
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## (54) INTERPOLATION DEVICE AND METHOD THEREOF

## (57)Abstract:

PROBLEM TO BE SOLVED: To obtain an interpolation device with which the deterioration of a frequency characteristic is reduced by processing interpolating data of a plurality of groups, where a sampling pitch is converted by means of a different phase, converting the sampling pitch and generating output data.

SOLUTION: A memory 12 stores and holds image data D1 to be displayed, and a horizontal direction interpolating part 13 converts the number of pixels of image data held in the memory 12 in the horizontal direction and outputs them. A vertical direction interpolating part 14 converts the number of the pixels of the image data outputted from the part 13 in the vertical directions and then outputs them. In a personal computer 10, the parts 13 and 14 are constituted of a central processing unit for executing a prescribed processing procedure. The unit generates interpolation data with a basic phase and those by a half phase deviation. Thus, deterioration of the frequency characteristic is reduce, and also a distortion is prevented from occurring.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

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